

What is claimed is:

1. An automatic gain control method comprising:
5 extracting a maximum absolute value of a reception signal received by a receiver of a radio frequency communication system;
determining a gain control value of the reception signal on the basis of the maximum absolute value and a predetermined threshold; and
controlling gain of the reception signal according to the determined gain
10 control value.
2. The method of claim 1, wherein the step of abstracting the maximum absolute value comprises:
storing absolute values of the reception signal; and
15 extracting the maximum absolute value among the stored absolute values.
3. The method of claim 1, wherein the step of controlling the gain comprises:
amplifying the reception signal by multiplying the reception signal by the
20 determined gain control value; and
outputting the amplified reception signal.
4. The method of claim 1, wherein the gain control value is for
amplifying the reception signal to make the extracted maximum absolute value
25 consist with the predetermined threshold, and the predetermined threshold is a

maximum absolute value of a predetermined reception signal.

5. An automatic gain control apparatus of a radio frequency communication system comprises the means for:

- 5 extracting a maximum absolute value of a reception signal received by a receiver of a radio frequency communication system;
- determining a gain control value of the reception signal on the basis of the maximum absolute value and a predetermined threshold; and
- controlling gain of the reception signal according to the determined gain control value.
- 10

6. The apparatus of claim 5, further comprising a means for storing absolute values of the reception signal.

15 7. The apparatus of claim 6, wherein the means for extracting the maximum absolute value extracts the maximum absolute value among the stored absolute values.

8. The apparatus of claim 5, wherein the means for controlling the gain amplifies the reception signal by multiplying the reception signal by the determined gain control value, and outputs the amplified reception signal.

20

9. The apparatus of claim 5, wherein the means for determining a gain control value of the reception signal determines a gain control value for amplifying the reception signal to make the abstracted maximum absolute value

25

consist with the predetermined threshold, wherein the threshold is a maximum absolute value of a predetermined reception signal.

10. An automatic gain control apparatus of a radio frequency
5 communication system comprises:

an amplitude controller for calculating absolute values of a reception signal received by a receiver of a radio frequency communication system;

a buffer for storing the absolute values of the reception signal, which have been calculated by the amplitude controller;

10 a controller for extracting a maximum absolute value among the absolute values stored at the buffer, and determining a gain control value of the reception signal by comparing the extracted maximum absolute value with a predetermined threshold; and

a multiplier for amplifying the reception signal by multiplying the reception
15 signal by the determined gain control value, and outputting the amplified reception signal.

11. The apparatus of claim 10, wherein the buffer is a first-in first-out storage.

20

12. The apparatus of claim 10, wherein the gain control value is for amplifying the reception signal to make the extracted maximum absolute value consist with the predetermined threshold, and the predetermined threshold is a maximum value of a predetermined reception signal.

25